



U.S. DEPARTMENT OF
ENERGY

Integration in Assuring the Successful Startup of the W80 Weapons System Campaign

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Building
Mission Success

Integration of Management Systems

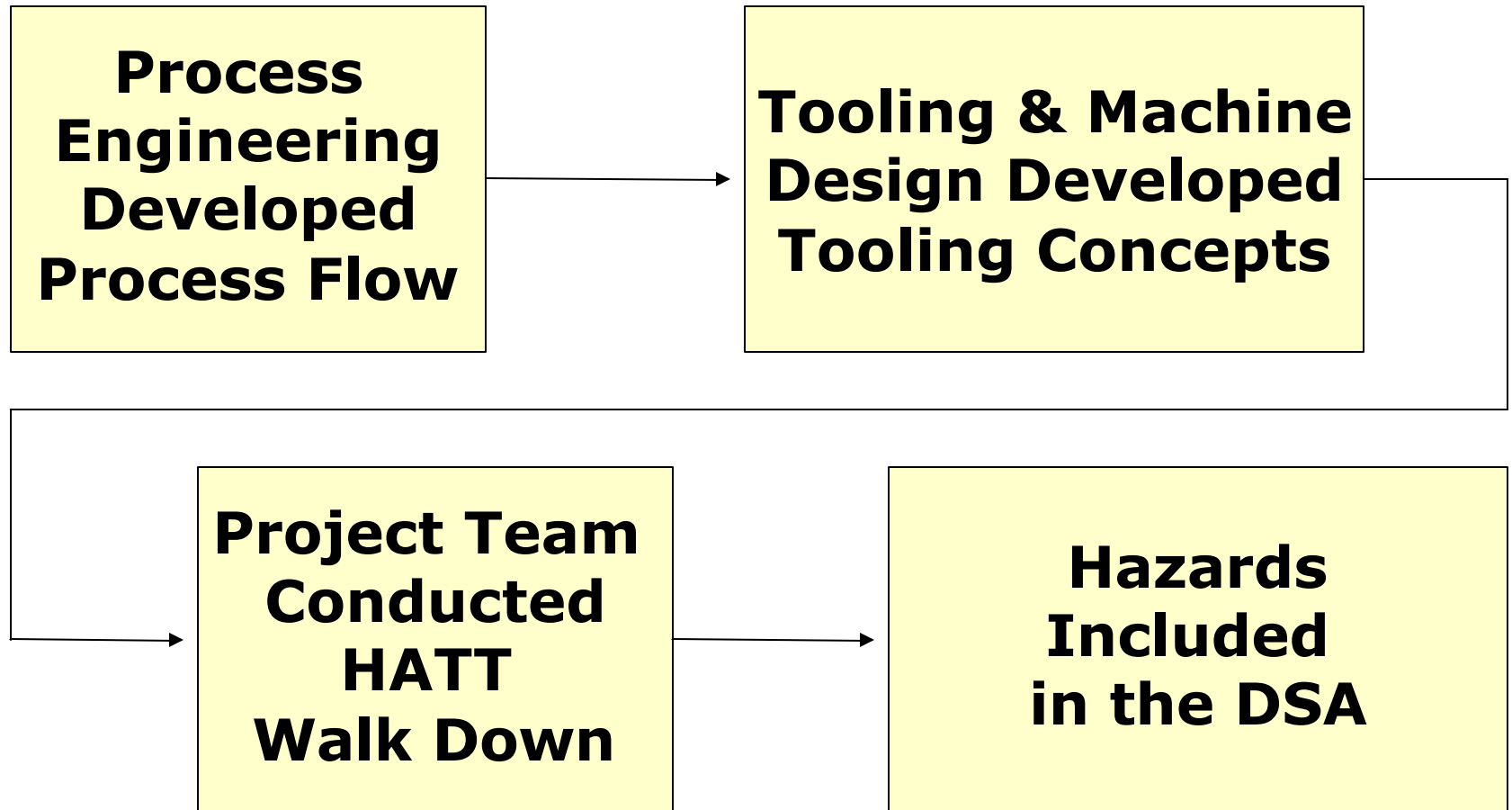
W80 SS-21 Disassembly and Inspection Operations

- W80
 - A cruise missile warhead
- Seamless Safety in the 21st Century (SS-21)
 - A modern methodology for performing nuclear explosive operations
- Disassembly and Inspection
 - An on-going part of Stockpile Stewardship
- The Pantex Documented Safety Analysis
 - Consists of 9 HARs and 11 SARs
 - More than 14,000 pages
 - Involved 1 HAR and 5 SARs.
- Start-up includes 4 levels of readiness review

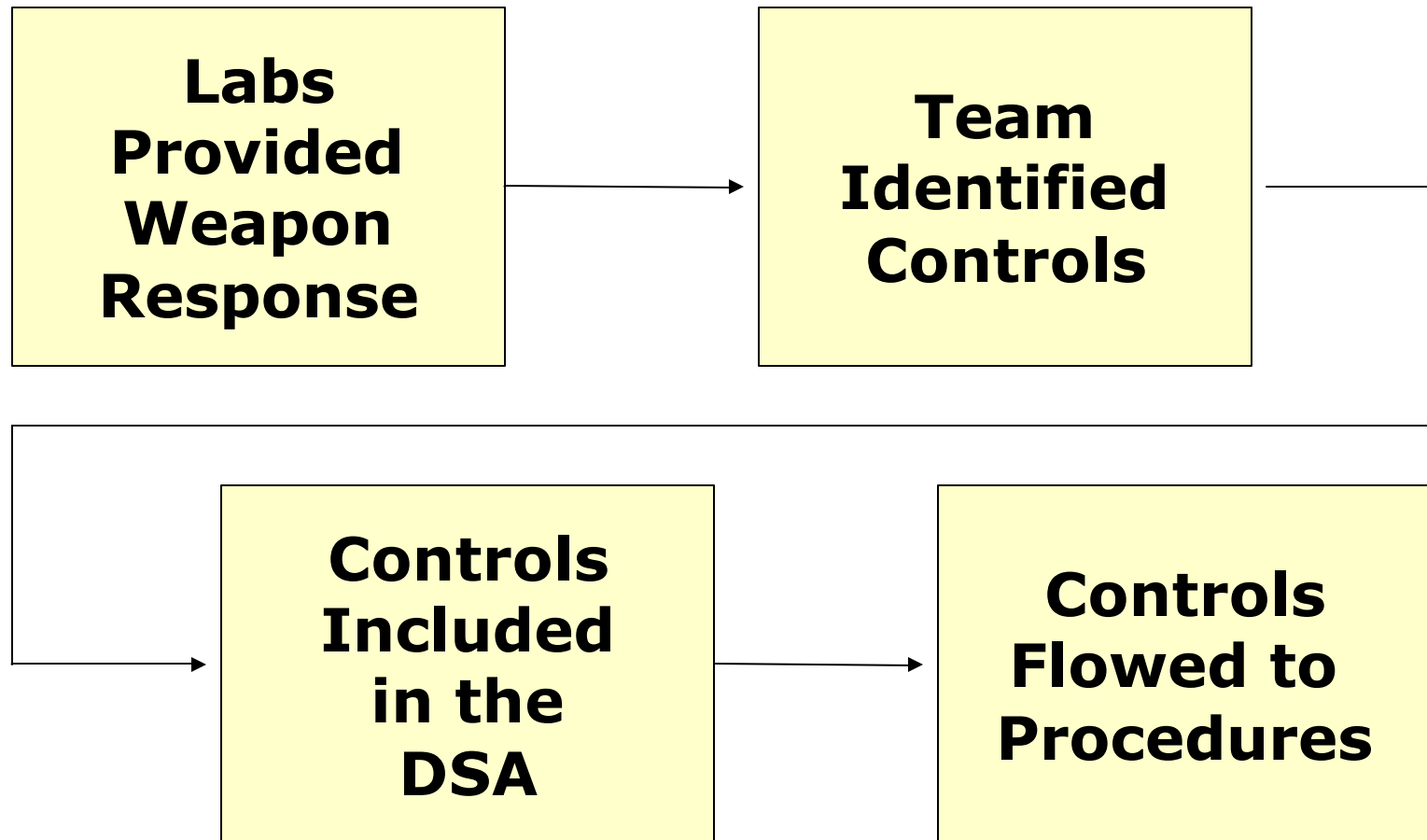
Define Scope

- Tasking from National Nuclear Safety Administration
 - The Project Team defined the Scope of Work in the Project Execution Plan (PEP)
- W80 SS-21 Project Team Multi-Site Integration
 - NNSA
 - National Labs (LLNL, SNL)
 - Pantex
- B&W Pantex Internal Integration
 - Program Management, Project Management, Process Engineering, Tooling & Machine Design, Quality & Performance Assurance, Authorization Basis and Manufacturing Production Technicians

Identify Hazards



Implement Controls



Perform Work

- Performance of work was demonstrated during the Readiness Activities required to achieve authorization operations
 - Project Team Verification Tryout (PVT)
 - Engineering Evaluation (EE)
 - Readiness Verification (RV)
 - Contractor Readiness Assessment (CRA)
 - Nuclear Explosive Safety Study (NESS)
 - NNSA Readiness Assessment (RA)

Feedback & Continuous Improvement

- Feedback occurred throughout the lifecycle of the project.
 - Weekly Project Team Meetings
 - Weekly Teleconferences with LLNL, SNL, and NNSA
 - Walk downs of the process during development
 - Tooling Tryouts
 - Manufacturing Validation of Procedures
 - Training
 - Readiness Reviews

Results

- Zero pre-start deficiencies in external readiness reviews
- Project achieved its scheduled milestone date
- Integration of the various management systems was the key to success
- Lessons Learned provided as feedback for improvement for future projects